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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/943,578	08/31/2001	Masakazu Funahashi	OHTN:004 9438		
75	90 08/03/2004	EXAMINER			
PARKHURST & WENDEL, L.L.P.			THOMPSON, CAMIE S		
Suite 210 1421 Prince Street			ART UNIT	PAPER NUMBER	
Alexandria, VA 22314-2805			1774	·	
			DATE MAILED: 08/03/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)		1
			78	FUNAHASHI ET AL.		•
Office Action Summary		Examine	Г	Art Unit		
		Camie S	Thompson	1774		
Period f	The MAILING DATE of this communication ap	ppears on th	e cover sheet with th	ne correspondence addi	ress	
A SI- THE - Exte after - If the - If No - Failt Any earr	IORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of th	.136(a). In no ev ply within the stard d will apply and w te, cause the app	vent, however, may a reply b tutory minimum of thirty (30) vill expire SIX (6) MONTHS f blication to become ABANDO	be timely filed) days will be considered timely, from the mailing date of this com ONED (35 U.S.C. § 133).	munication.	
Status						
	Responsive to communication(s) filed on Ame					
2a)⊠	,—	is action is r				
3)	Since this application is in condition for allowa- closed in accordance with the practice under	•		•	nerits is	
Disposit	ion of Claims					
5)□ 6)⊠	Claim(s) <u>1-15</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1 and 2</u> is/are rejected. Claim(s) <u>3-15</u> is/are objected to. Claim(s) are subject to restriction and/	awn from co				
Applicat	ion Papers					
9)[The specification is objected to by the Examin	ier.				
10)	The drawing(s) filed on is/are: a) ac					
	Applicant may not request that any objection to the					
11)[Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E			=	. ,	
Priority (under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureasee the attached detailed Office action for a list	nts have bee nts have bee ority docume au (PCT Rul	en received. en received in Applic ents have been rece e 17.2(a)).	cation No eived in this National St	tage	
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	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summ Paper No(s)/Mai	ary (PTO-413) il Date		
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	3)		al Patent Application (PTO-1	52)	

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DETAILED ACTION

- 1. Applicant's amendment and accompanying remarks filed May 24, 2004 have been acknowledged.
- 2. Examiner acknowledges amended claims 1 and 2.
- 3. The rejection of claims 1-15 under 35 U.S.C. 112, second paragraph is withdrawn due to applicant's amended claims and argument.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 07-175238.

The Japanese reference discloses a compound that comprises a styryl group that has arylamino groups attached at both ends of the carbon-carbon double bond (see formula I). The compound of the Japanese reference reads on instant claim 1 when n=0, R² is hydrogen, Ar¹ {corresponds to A and A' in instant claims 1 and 2} is a substituted or unsubstituted aryl group such as a phenyl group or a naphthyl group (see Table 1, nos. 28 and 31), Ar² and Ar³ are substituted or unsubstituted phenyl rings and R³ and R⁴ {corresponds to C, C', D and D'} are substituted or unsubstituted phenyl groups such as a

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naphthyl, anthryl or phenyl group (see reference claim 1 and Table 1, nos. 22, 23 and 25). When Ar¹ and R³ are naphthyl or anthryl groups, the Japanese reference satisfies the requirement for A' and C' to be substituted or unsubstituted condensed hydrocarbon group having 2 to 5 rings.

6. Claims 3-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record fails to teach or suggest an electroluminescence device comprising a pair of electrodes and a film of organic compounds which is disposed between the pair of electrodes and comprises a single layer or a plurality of layers comprising at least a light emitting layer, wherein at least one of the layers of the film of organic compounds comprises the recited novel styryl compounds as described in instant claims 1 and 2.

Response to Arguments

7. Applicant's arguments filed May 24, 2004 have been fully considered but they are not persuasive. Applicant argues that the Japanese reference does not read on currently amended claim 1. Instant claim 1 requires groups A to D independently representing a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aryl group having 6 to 40 carbon atoms and at least two of A to D each represent a group represented by $-Ar^1Ar^2$ wherein Ar^1 represents a substituted or unsubstituted phenylene group or naphthalene group and Ar^2 represents a substituted or unsubstituted aryl group having 6 to 34 carbon atoms, excluding a case in which A and C represent biphenyl and B and represent phenyl group. The Ar^1 of the Japanese reference

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is equivalent to A in the instant formula (1). R³ and R⁴ of the Japanese reference are equivalent to C and D of the instant formula (1). The Japanese reference discloses that n can be zero and R² can be hydrogen; therefore, the formula comprises only CH=CH between the two arylamino groups. Additionally, R³ and R⁴ can be biphenyl, which is not excluded because R³ and R⁴ are equivalent to C and D and satisfies the requirement for at least two of A to D be represented by –Ar¹Ar². Also, when Ar¹ is an aryl group the requirement for A and C to not be biphenyl is satisfied. The Japanese reference satisfies all the limitations of instant claim 1.

8. Applicant's amendment of claim 2 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30

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am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached at (571) 272-3186. The fax phone number for the Group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RENA DYE
PRIMARY EXAMINER